What we claim is:

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- 1. A kit comprising, as reagents, labeled 25-hydroxyvitamin  $D_3$  and unlabeled 25-hydroxyvitamin  $D_3$  along with instruction for use in measuring salt sensitivity.
- 2. A method of evaluating salt sensitivity of individuals by:
  - (a) collecting a urine sample from said individuals,
  - (b) preparing samples containing a known amount of radiolabeled 25-hydroxyvitamin  $D_3$ ,
  - (c) preparing two sets of samples from the samples
    obtained in step (b)
    - (1) by adding to one set of the samples obtained in step (b) a known amount of 25-hydroxyvitamin  $D_3$  (designated 25-OHD samples) and
    - (2) by retaining a second set of the samples obtained in step (b) without addition of 25-hydrox-yvitamin  $D_3$  (designated non-25-OHD samples)
  - (d) incubating all samples,
  - (e) measuring the amount of radioactivity in each sample, and
  - (f) determining the amount of activity in any urine sample by subtracting the amount of activity in 25-OHD samples (samples (1)) from the amount of activity in the non-25-OHD the samples (samples (2)) to obtain specific binding.
- 3. A method of indentifying individuals likely to develop salt-sensitivity-related hypertension by evaluating salt-sensitivity by the method of claim 2, wherein high 25-OHD binding is deemed indicative of predisposition to salt-sensitivity-related hypertension.
- 4. The kit of claim 1 lacking antibodies to 25-hydroxy-

vitamin D.